

ECS/EMD Configuration Change Request

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Page(s)

1. Originator Murray Itkin	2. Log Date: 03/03/05	3. CCR #: 04-0693	4. Rev:	5. Tel: 301.925.0763	6. Rm #: 3108E	7. Org. COTS/HW
8. CCR Title: Install openssl on the Solaris build machines; cmserv01, cmserv02, blood, and apache.						
9. Originator Signature/Date Murray Itkin /s/ 3/10/05			10. Class IN	11. Type: CCR	12. Need Date: 3/03/05	
13. CCR Sponsor Signature/Date Pamela Johnson /s/ 3/10/05			14. Category of Change: Update ECS/EMD Baseline Doc		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted (Review and submit checklist):			17. Schedule Impact:		18. CI(s) Affected:	
19. Release Affected by this Change:		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
23. Problem: (use additional Sheets if necessary) Strong cryptographic libraries are needed for the development of a password protection capability to support a Stornext server failover tool.						
24. Proposed Solution: (use additional sheets if necessary) Utilize the open source cyotographic library Openssl at lversion 0.9.7d. Openssl supports FIPS-approved strong cryptographic ciphers, including AES, which is planned for the password protection capability. install this product on the Solaris build machines; cmserv01, cmserv02, blood and apache.						
25. Alternate Solution: (use additional sheets if necessary) The alternative solution is to forgo the use of this product and instead re-use existing custom code password protection methods which may have to be customized to provide this capability and which probably have a lower security margin than industry-standard encryption ciphers.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary)						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date): Darryl Washington /s/ 3/10/05			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: **Rev:** **Originator:** Murray Itkin

Telephone: 301.925.0763 **Office:** 3108E

Title of Change: Install openssl on the Solaris build machines; cmserv01, cmserv02, blood and apache.

Installation Instructions:

1. Download the file openssl-0.9.7d.tar.gz from <http://www.openssl.org/source/>. (Note: there is a newer version (0.9.7e) for which installation attempts have been unsuccessful)
2. Uncompress/untar the file as root in a root-owned directory.
3. Change directory to <dir>openssl-0.9.7d where <dir> is the directory in which the file was untar-ed.
4. Execute ./config to configure the build environment
5. Execute make to compile the product.
6. Execute make install to install the product